

Shipping carton, RSC

REGULAR SLOTTED CONTAINER · ONE GLUED JOINT · TAPE CLOSED

CP-CTN-RSC1 406 × 305 × 305 mm

CP-CTN-RSC2 610 × 457 × 457 mm

PROJECT

CATALOG NO.

TYPE

DATE

PRODUCT DESCRIPTION

A regular slotted container on a single glued manufacturer's joint. All four flaps are the same length, the outer pair meets at the centre seam, and every figure in the range is quoted against this box. RSC1 runs 32 ECT on C-flute for single-wall duty; RSC2 steps up to BC double wall where the stack height or the humidity says so.

Construction

- One-piece blank on a single glued manufacturer's joint
- All four flaps equal length; the outer pair meets at the centre seam
- Ships as a flat tube, squares up in one motion at the bench
- No die-cut lock — the seam is what holds the carton shut

Board and materials

- 32 ECT C-flute kraft at RSC1; 44 ECT BC double wall at RSC2
- Caliper 4.0 mm C-flute, 7.0 mm BC double wall
- Uncoated kraft liner both faces, no wax and no plastic laminate
- Starch adhesive on the joint; the whole carton is one material stream

Performance

- Burst strength 1,400 kPa at RSC1, 1,900 kPa at RSC2
- Maximum gross load 30 kg at RSC1, rising to 55 kg at RSC2
- Compression is won at the corners; overhang on the pallet loses it
- Flat-pack thickness 8.5 mm, so a bundle of twenty-five stands 213 mm

Closure and handling

- Closed with one strip of water-activated tape across the centre seam
- The seam is sealed, not locked — a second trip needs a fresh strip
- Sealed cartons stack square; a taped seam carries no load
- Paper tape stays on the carton into recycling — see accessories

Printing

- Water-based flexo direct to uncoated kraft, no barrier coat
- One or two colours outside; interior print available on the same pass
- Print area stops 12 mm short of every score and both slot cuts
- Plain kraft is the stock condition and carries no set-up charge

Tolerances

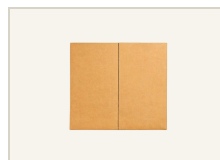
- Internal dimensions ±2 mm on the slotter, both sizes
- Board caliper ±0.3 mm C-flute, ±0.5 mm BC double wall
- Joint alignment ±3 mm; beyond that the carton will not square
- Printed colour to a signed drawdown, not to a screen proof

Applications

- Multi-item orders and anything heavier than a mailer will take
- Palletised freight, where the corners carry the stack
- Outer despatch around trays, dividers or smaller mailers
- Any pack where the contents are set by the insert, not by the box



Three-quarter, closed



Top · Side · Flat packed

SPECIFY

Specify by load, then check the pallet. RSC1 covers most despatch up to 30 kg; RSC2 exists for the loads and stack heights RSC1 will not hold. Neither figure survives pallet overhang: 20 mm of overhang removes roughly a third of the compression, which is more than the step from C-flute to BC double wall adds.

32 ECT

C-FLUTE

BC DOUBLE WALL

DROPRATED D3

AT A GLANCE

Format	Regular slotted container
Sizes	2 – 406 to 610 mm
Board	32 ECT C · 44 ECT BC double wall
Closure	Water-activated tape, one strip
Consumables to close	Tape – CP-TP-G70
Maximum gross load	30 kg · 55 kg

See also. Every mark this family holds, what each one certifies and the recycled figure by weight are on the features and benefits sheet.

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CP-CTN-RSC2 610 × 457 × 457 mm

BUILD THE CODE

SERIES	SIZE	BOARD	PRINT	PACK
CP-CTN	RSC1 406 × 305 × 305 mm	C 32 ECT C-flute	K Plain kraft	25 Bundle of 25
	RSC2 610 × 457 × 457 mm	BC 44 ECT BC double wall	1C One colour, outside	PL Pallet, 6 per layer
		—	2C Two colour, outside	—
			IN Interior print, adds to 1C or 2C	

Example

CP-CTN-RSC1-C-1C-25

406 × 305 × 305 mm internal, 32 ECT C-flute kraft, one colour water-based flexo outside, bundled twenty-five.

- C board is available at RSC1 only. BC double wall is available at RSC2 only; the two sizes are not offered on each other's grade.
- IN is a suffix on 1C or 2C, not a print option on its own: CP-CTN-RSC1-C-1C-IN-25.
- Pallet packing replaces the bundle wrap; the count per pallet is on the acknowledgement.

SIZES, MINIMUM ORDER AND LISTINGS

CODE	INTERNAL SIZE, L × W × D	MINIMUM · LEAD	LISTINGS
CP-CTN-RSC1	406 × 305 × 305 mm	250 · 5 days	   
CP-CTN-RSC2	610 × 457 × 457 mm	125 · 7 days	  

Minimum order and lead time are held against each size in the catalogue record and are shown in the table above. Lead time runs from artwork approval, not from order receipt.

ACCESSORIES, ORDERING

CODE	ITEM	MINIMUM	LEAD
CP-TP-G70	Water-activated paper tape	12 rolls	3 days
CP-DIV-0909	Cell divider, 9 cell	250	6 days
CP-VF-CR18	Crinkle paper fill	4 cartons	2 days
CP-PLP-CNR	Pulp corner protector	2,000	10 days

What each accessory is for, and how it goes in, is on the assembly instructions.

CUSTOM SIZES

Outside the two sizes. A bespoke internal size runs on the same slotter at a 2,000 minimum and a 4 week lead. There is no die to cut, so a custom RSC is quicker and cheaper to originate than a custom mailer. Quote the internal size in L × W × D order and in millimetres; a sample carton comes back before the run.

ARTWORK AND PROOFING

	REQUIREMENT
Supply format	Vector PDF or AI, fonts outlined, 1:1 scale
Layout	Issued by CambiumPak on order. An RSC is slotted, not die-cut, so artwork is laid to the panel layout rather than to a dieline
Colour	Spot to a signed drawdown. Water-based flexo on uncoated kraft shifts warm; screen proofs are indicative only
Minimum type	6 pt positive, 8 pt reversed out of a solid
Keep-clear	12 mm from every score and from both slot cuts
Seam	No artwork across the centre seam on the outer flaps; the tape lands there
Proof round	One PDF proof, one production sample on request; a sample round adds 3 days to the lead

Artwork received after 14:00 is logged the next working day. The lead times in the table above run from artwork approval, not from the day the file arrives.

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CP-CTN-RSC2 610 × 457 × 457 mm

MECHANICAL PERFORMANCE, BY SIZE

	CP-CTN-RSC1	CP-CTN-RSC2
Board grade	32 ECT C-flute	44 ECT BC double wall
Caliper	4.0 mm	7.0 mm
Burst strength	1,400 kPa	1,900 kPa
Maximum gross load	30 kg	55 kg
Top-load compression, made up	4.6 kN	9.2 kN
Joint pull, shear	0.9 kN	1.6 kN
Stack height, 48 h at 23 °C / 50 % RH	7 high	5 high
Free-fall drop, loaded to rating	900 mm	760 mm
Flat-pack thickness	8.5 mm	8.5 mm

TEST CONDITIONS

- Compression is measured on a made-up empty carton with all flaps sealed, platen parallel, 12.7 mm per minute.
- Stack height assumes an evenly loaded carton on a flat pallet and no overhang. Overhang of 20 mm removes roughly a third of the stack, at either grade.
- Drop height falls as the rated load rises: RSC2 is dropped at 55 kg and RSC1 at 30 kg, which is why the larger carton lists the shorter height.
- All figures are provisional. Nothing on this sheet has been through an independent test house.

RELATIVE CAPACITY

Maximum gross load

CP-CTN-RSC1		30 kg
CP-CTN-RSC2		55 kg

Top-load compression, made up

CP-CTN-RSC1		4.6 kN
CP-CTN-RSC2		9.2 kN

SERVICE AND STORAGE

Service temperature	−20 °C to 60 °C
Storage humidity	40 – 60 % RH
Wet strength	None – keep dry
Shelf life, flat	24 months in original wrap

BOARD SPECIFICATION

Board grade, RSC1	32 ECT C-flute kraft
Board grade, RSC2	44 ECT BC double wall
Burst strength	1,400 · 1,900 kPa
Max gross load	30 kg · 55 kg

CHOOSING A SIZE BY CONTENT

CONTENT WEIGHT	LONGEST CONTENT DIMENSION	SPECIFY
Under 16 kg	Under 440 mm	CP-MLR-1814 — a carton is more box than the load needs
Up to 30 kg	Under 390 mm	CP-CTN-RSC1
Up to 55 kg	390 to 590 mm	CP-CTN-RSC2
Over 55 kg	Any	Not a single carton — split the load or palletise it

Content dimension allows 20 mm of void fill on the long axis, twice the mailer's allowance, because a carton is handled at the corner rather than the face. If the content is closer than that to the internal length, step up.

TEST METHODS

FIGURE	METHOD	CONDITIONING
Edge crush, ECT	Board tested on the flute, 25 mm specimen, loaded to failure	23 °C / 50 % RH, 24 h
Burst strength	Diaphragm burst on the combined board, both liners	23 °C / 50 % RH, 24 h
Top-load compression	Made-up empty carton, all flaps sealed, platen parallel, 12.7 mm per minute	23 °C / 50 % RH, 24 h
Joint pull	Manufacturer's joint loaded in shear to failure, 50 mm specimen	23 °C / 50 % RH, 24 h
Stack height	Dead load held 48 h, evenly loaded carton, flat pallet, no overhang	23 °C / 50 % RH
Free-fall drop	Corner, edge and face sequence, loaded to the rated gross weight	23 °C / 50 % RH, 24 h

Methods are stated so the figures can be reproduced, not because the results have been through an independent house. Until they have, every figure on this sheet is provisional.

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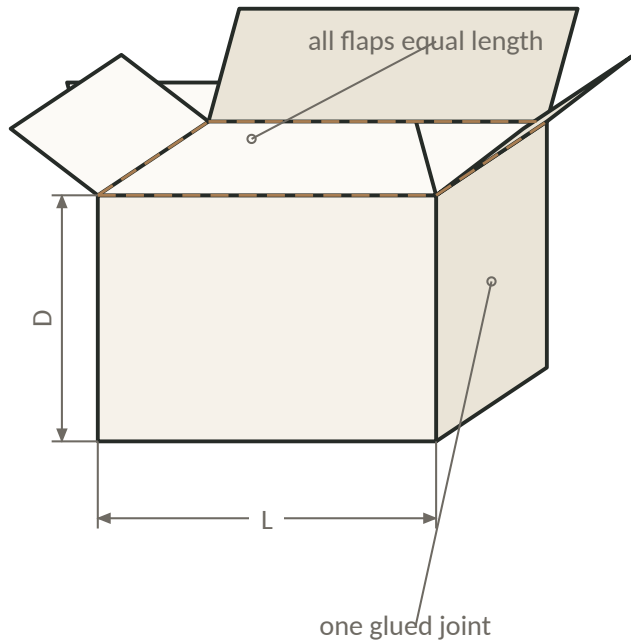
REGULAR SLOTTED CONTAINER · ONE GLUED JOINT · TAPE CLOSED

CP-CTN-RSC1 406 × 305 × 305 mm

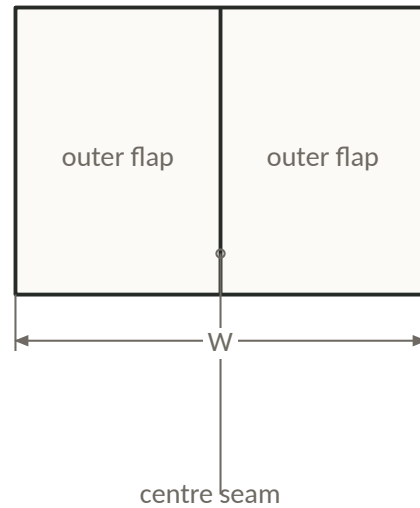
CP-CTN-RSC2 610 × 457 × 457 mm

MADE UP, INTERNAL

FLAPS OPEN



TOP, CLOSED



solid = cut · dashed = score · L × W × D in mm, two sizes — see table

Every dimension on this sheet is internal, in millimetres, in length × width × depth order. Blank size is the flat slotted sheet before folding, glue tab included, and is given for print planning only.

MEASUREMENTS

Internal, RSC1	406 × 305 × 305 mm
Internal, RSC2	610 × 457 × 457 mm
Blank size, RSC1	1,462 × 610 mm
Board caliper	4.0 mm C · 7.0 mm BC
Flat-pack thickness	8.5 mm
Pallet fit, RSC1	1200 × 1000 mm, 6 per layer

FLAT BLANK AND PRINT

Blank size, RSC1	1,462 × 610 mm
Blank size, RSC2	2,174 × 914 mm
Glue tab width	40 mm
Print area inset from score	12 mm
Slot width	4.5 mm C-flute · 7.5 mm BC
Score radius	2.0 mm C-flute · 3.5 mm BC

PALLETISATION

Pallet	1200 × 1000 mm
Bundles per layer	6
Layers per pallet	6
Pallet height, wrapped	1,430 mm



Three-quarter, closed



Top



Side



Flat packed